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# NiceZyme View of ENZYME: EC 2.4.2.4

## Official Name

**Thymidine phosphorylase.**

## Alternative Name(s)

**Pyrimidine phosphorylase.**

## Reaction catalysed

Thymidine + phosphate  $\rightleftharpoons$  thymine + 2-deoxy-alpha-D-ribose 1-phosphate

## Comment(s)

In some tissues also catalyzes deoxyribosyltransferase reactions of the type catalyzed by EC 2.4.2.6.

## Human Genetic Disease(s)

Mitochondrial  
neurogastrointestinal MIM:603041  
encephalomyopathy

## Cross-references

Biochemical

Pathways; map number(s) K8

PROSITE PDOC00557

BRENDA 2.4.2.4

PUMA2 2.4.2.4

PRIAM enzyme-specific profiles 2.4.2.4

Kyoto University  
LIGAND chemical database 2.4.2.4

IUBMB Enzyme  
Nomenclature 2.4.2.4

IntEnz 2.4.2.4

MEDLINE Find literature relating to 2.4.2.4

MetaCyc 2.4.2.4

O28928, TYPH1\_ARCFU; O28927, TYPH2\_ARCFU; Q8UJ08, TYPH\_AGRT5  
Q89QK7, TYPH\_BRAJA; Q62EC5, TYPH\_BURMA; Q63IV6, TYPH\_BURPS  
Q7NRT0, TYPH\_CHRVO; Q483R6, TYPH\_COLP3; Q8XB35, TYPH\_ECO57

UniProtKB/Swiss-Prot	Q8FA52, TYPH_ECOL6;	P07650, TYPH_ECOLI;	Q6D991, TYPH_ERWCT
	P19971, TYPH_HUMAN;	Q5QXT8, TYPH_IDILO;	P19663, TYPH_LACRH
	Q8RNP4, TYPH_LEGPN;	Q8TL01, TYPH_METAC;	Q58081, TYPH_METJA
	Q8Q0P9, TYPH_METMA;	Q99N42, TYPH_MOUSE;	P47297, TYPH_MYCGE
	P43050, TYPH_MYCHO;	P47717, TYPH_MYCPI;	P75052, TYPH_MYCPN
	O53366, TYPH_MYCTU;	Q6LUH3, TYPH_PHOPR;	Q9V163, TYPH_PYRAE
	Q8U0I2, TYPH_PYRFU;	O59251, TYPH_PYRHO;	Q5JCX3, TYPH_PYRKC
	Q8Y2X7, TYPH_RALSO;	Q98GV5, TYPH_RHILO;	Q92T50, TYPH_RHIME
	Q57G40, TYPH_SALCH;	Q5PK22, TYPH_SALPA;	Q8XF46, TYPH_SALTI
	Q7CP66, TYPH_SALTY;	Q8EHK3, TYPH_SHEON;	Q31SV7, TYPH_SHIBS
	Q327L4, TYPH_SHIDS;	Q83P01, TYPH_SHIFL;	Q3YU11, TYPH_SHISS
	Q9KPL8, TYPH_VIBCH;	Q5E7J6, TYPH_VIBF1;	Q87M23, TYPH_VIBPA
	Q8DBT1, TYPH_VIBVU;	Q7MI39, TYPH_VIBVY;	Q74PY8, TYPH_YERPE
	Q66EV9, TYPH_YERPS;		

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# NiceZyme View of ENZYME: EC 4.1.2.13

## Official Name

**Fructose-bisphosphate aldolase.**

## Alternative Name(s)

**Aldolase.**

**Fructose-1,6-bisphosphate triosephosphate-lyase.**

## Reaction catalysed

D-fructose 1,6-bisphosphate  $\rightleftharpoons$  glycerone phosphate + D-glyceraldehyde 3-phosphate

## Cofactor(s)

Zinc.

## Comment(s)

- Also acts on (3S,4R)-ketose 1-phosphates.
- The enzymes increase electron-attraction by the carbonyl group, some (Class I) form a protonated imine with it, others (Class II), mainly of microbial origin, polarizing it with a metal ion, e.g. zinc.
- Formerly EC 4.1.2.7.

## Human Genetic Disease(s)

Fructose intolerance      MIM:229600

Hemolytic anemia due to aldolase A deficiency      MIM:103850

## Cross-references

Biochemical Pathways; map number(s)      C5 ; C6 ; U9

PROSITE      PDOC00143 ; PDOC00523

BRENDA      4.1.2.13

PUMA2      4.1.2.13

PRIAM enzyme-specific profiles      4.1.2.13

Kyoto University LIGAND      4.1.2.13

chemical  
database

IUBMB Enzyme  
Nomenclature 4.1.2.13

IntEnz 4.1.2.13

MEDLINE Find literature relating to 4.1.2.13

MetaCyc 4.1.2.13

UniProtKB/Swiss-  
Prot

P04075, ALDOA_HUMAN;	P05064, ALDOA_MOUSE;	P00883, ALDOA_RABIT;
P05065, ALDOA_RAT;	P07341, ALDOB_CHICK;	P05062, ALDOB_HUMAN;
Q91Y97, ALDOB_MOUSE;	P79226, ALDOB_RABIT;	P00884, ALDOB_RAT;
P52210, ALDOB_SHEEP;	P53447, ALDOB_SPAAU;	P53448, ALDOC_CARAU;
P53449, ALDOC_CHICK;	P09972, ALDOC_HUMAN;	Q9GKW3, ALDOC_MACFA;
P05063, ALDOC_MOUSE;	Q5R1X4, ALDOC_PANTR;	P09117, ALDOC_RAT;
Q9YG90, ALF1_AERPE;	P13243, ALF1_BACSU;	P54216, ALF1_CAEEL;
Q9PKH8, ALF1_CHLMU;	Q9Z8Q7, ALF1_CHLPN;	O84217, ALF1_CHLTR;
Q97TN4, ALF1_CLOAB;	P0A992, ALF1_ECOL6;	P0A991, ALF1_ECOLI;
Q8RGH3, ALF1_FUSNN;	P53445, ALF1_LAMJA;	Q8ELI2, ALF1_OCEIH;
P46256, ALF1_PEA;	P60053, ALF1_PORGI;	Q9V2I6, ALF1_PYRAB;
P58314, ALF1_PYRFU;	O57840, ALF1_PYRHO;	Q8J308, ALF1_PYRKO;
Q59100, ALF1_RALEU;	P58336, ALF1_RHIME;	P27995, ALF1_RHOSH;
Q5HCU6, ALF1_STAAC;	P67472, ALF1_STAAM;	P99117, ALF1_STAAN;
Q6GDJ7, ALF1_STAAR;	Q6G670, ALF1_STAAS;	Q8NUM5, ALF1_STAAW;
Q07159, ALF1_STACA;	Q5HL21, ALF1_STAEQ;	Q8CMY5, ALF1_STAES;
Q4L9B6, ALF1_STAHJ;	P74309, ALF1_SYNY3;	P58315, ALF1_THETE;
Q73QV3, ALF1_TREDE;	Q8PHB5, ALF1_XANAC;	Q8P5Z7, ALF1_XANCP;
Q9PF52, ALF1_XYLFA;	Q87AI0, ALF1_XYLFT;	P42420, ALF2_BACSU;
P46563, ALF2_CAEEL;	P53446, ALF2_LAMJA;	P46257, ALF2_PEA;
P49577, ALF2_PLABA;	Q59101, ALF2_RALEU;	P56888, ALF2_RHIME;
P50923, ALF2_RHOC;	P29271, ALF2_RHOSH;	Q5HE75, ALF2_STAAC;
P67477, ALF2_STAAM;	P99075, ALF2_STAAN;	Q6GEV0, ALF2_STAAR;
Q6G7I5, ALF2_STAAS;	P67478, ALF2_STAAW;	Q5HM97, ALF2_STAEQ;
Q8CNI3, ALF2_STAES;	Q55664, ALF2_SYNY3;	Q42690, ALFC_CHLRE;
Q40677, ALFC_ORYSA;	Q01516, ALFC_PEA;	P16096, ALFC_SPIOL;
Q01517, ALFD_PEA;	P22197, ALF_ARATH;	Q9HGY9, ALF_ASPOR;
P94453, ALF_BACST;	O51401, ALF_BORBU;	P57526, ALF_BUCAI;
Q8K9B2, ALF_BUCAP;	Q89AB6, ALF_BUCBP;	P53818, ALF_CAMJE;
Q9URB4, ALF_CANAL;	O65735, ALF_CICAR;	P19537, ALF_CORGL;
P07764, ALF_DROME;	Q9GP32, ALF_ECHMU;	P0AB72, ALF_ECO57;
P0AB71, ALF_ECOLI;	O52402, ALF_EDWIC;	P44429, ALF_HAEIN;
Q9ZMQ6, ALF_HELPJ;	P56109, ALF_HELPY;	Q9C2U0, ALF_KLULA;
P91759, ALF_LYMST;	P08440, ALF_MAIZE;	P67476, ALF_MYCBO;
P47269, ALF_MYCGE;	O69600, ALF_MYCLE;	P75089, ALF_MYCPN;
P67475, ALF_MYCTU;	P53444, ALF_NEUCR;	Q9XDP3, ALF_NOSCO;
P17784, ALF_ORYSA;	Q8J0N6, ALF_PARBR;	P14223, ALF_PLAFA;
Q9I5Y1, ALF_PSEAE;	O87796, ALF_PSEST;	P53442, ALF_SCHMA;
P36580, ALF_SCHPO;	P0AB73, ALF_SHIFL;	P29356, ALF_SPIOL;
Q9X8R6, ALF_STRCO;	Q9ZEM7, ALF_STRGB;	P68905, ALF_STRP1;
Q8K5W5, ALF_STRP3;	Q5XA12, ALF_STRP6;	P68906, ALF_STRP8;
P0A4S1, ALF_STRPN;	P0A4S2, ALF_STRR6;	Q703I2, ALF_THECA;
O83668, ALF_TREPA;	P07752, ALF_TRYBB;	Q9PPP3, ALF_UREPA;
Q56815, ALF_XANFL;	P14540, ALF_YEAST;	

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# NiceZyme View of ENZYME: EC 2.4.2.1

## Official Name

**Purine-nucleoside phosphorylase.**

## Alternative Name(s)

**Inosine phosphorylase.**

**PNPase.**

## Reaction catalysed

Purine nucleoside + phosphate  $\rightleftharpoons$  purine + alpha-D-ribose 1-phosphate

## Comment(s)

- Specificity not completely determined.
- Can also catalyze ribosyltransferase reactions of the type catalyzed by EC 2.4.2.5.

## Human Genetic Disease(s)

T-cell  
immunodeficiency  
with neurologic  
disorder MIM:164050

## Cross-references

Biochemical Pathways; map number(s)	G1 ; I1
PROSITE	PDOC00946 ; PDOC00954
BRENDA	2.4.2.1
PUMA2	2.4.2.1
PRIAM enzyme- specific profiles	2.4.2.1
Kyoto University LIGAND chemical database	2.4.2.1
IUBMB Enzyme Nomenclature	2.4.2.1
IntEnz	2.4.2.1
MEDLINE	Find literature relating to 2.4.2.1
MetaCyc	2.4.2.1

UniProtKB/Swiss-  
Prot

Q6LUH1, DEOD1_PHOPR;	Q8EKK0, DEOD1_SHEON;	Q9KPM0, DEOD1_VIBCH;
Q5E7J4, DEOD1_VIBF1;	Q87M25, DEOD1_VIBPA;	Q8DBS9, DEOD1_VIBVU;
Q7MI41, DEOD1_VIBVY;	Q6LLA7, DEOD2_PHOPR;	Q8EHK0, DEOD2_SHEON;
Q9KNB2, DEOD2_VIBCH;	Q5E0H4, DEOD2_VIBF1;	Q87G42, DEOD2_VIBPA;
Q8D3Z2, DEOD2_VIBVU;	Q7MFG6, DEOD2_VIBVY;	Q8EDM4, DEOD3_SHEON;
Q5DYV8, DEOD3_VIBF1;	P94164, DEOD_ACTPL;	Q81T09, DEOD_BACAN;
Q73B32, DEOD_BACC1;	Q5EEL8, DEOD_BACCE;	Q81FV5, DEOD_BACCR;
Q63DR9, DEOD_BACCZ;	Q6HL92, DEOD_BACHK;	Q65IE9, DEOD_BACLD;
P77835, DEOD_BACST;	O34925, DEOD_BACSU;	P57606, DEOD_BUCAI;
Q8K937, DEOD_BUCAP;	Q89A58, DEOD_BUCBP;	Q7NRT2, DEOD_CHRVO;
Q894Z3, DEOD_CLOTE;	Q483Q8, DEOD_COLP3;	P0ABP9, DEOD_ECO57;
Q8FA51, DEOD_ECOL6;	P0ABP8, DEOD_ECOLI;	Q6D989, DEOD_ERWCT;
Q5KZM1, DEOD_GEOKA;	Q7VMS8, DEOD_HAEDU;	Q4QN30, DEOD_HAEI8;
P44417, DEOD_HAEIN;	Q9ZK38, DEOD_HELPJ;	P56463, DEOD_HELPY;
Q59482, DEOD_KLEPN;	Q9CH10, DEOD_LACLA;	O32810, DEOD_LACLC;
Q92AF2, DEOD_LISIN;	Q71YG0, DEOD_LISMF;	Q8Y644, DEOD_LISMO;
Q65RA4, DEOD_MANSM;	P47295, DEOD_MYCGE;	P47724, DEOD_MYCPI;
P75053, DEOD_MYCPN;	Q8ENY0, DEOD_OCEIH;	Q9CLE6, DEOD_PASMU;
Q7N930, DEOD_PHOLL;	Q3ICU8, DEOD_PSEHT;	Q57G38, DEOD_SALCH;
Q5PK20, DEOD_SALPA;	Q8Z0U2, DEOD_SALTI;	Q8ZJV7, DEOD_SALTY;
Q31SV5, DEOD_SHIBS;	Q327L2, DEOD_SHIDS;	Q83P00, DEOD_SHIFL;
Q3YU09, DEOD_SHISS;	Q56037, DEOD_STRTR;	Q8R973, DEOD_THETN;
O83716, DEOD_TREPA;	Q8KRT5, DEOD_XENNE;	Q8ZIQ2, DEOD_YERPE;
Q66EV7, DEOD_YERPS;	P55859, PNPB_BOVIN;	P00491, PNPB_HUMAN;
P23492, PNPB_MOUSE;	Q05788, PNPB_YEAST;	P77834, PUNA_BACST;
P46354, PUNA_BACSU;	P81989, PUNA_CELSP;	P0A539, PUNA_MYCBO;
P46862, PUNA_MYCLE;	P0A538, PUNA_MYCTU;	

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# NiceZyme View of ENZYME: EC 2.4.2.6

## Official Name

**Nucleoside deoxyribosyltransferase.**

## Reaction catalysed

2-deoxy-D-ribosyl-base(1) + base(2) <=> 2-deoxy-D-ribosyl-base(2) + base(1)

## Comment(s)

Base(1) and base(2) represent various purines and pyrimidines.

## Cross-references

BRENDA	2.4.2.6
PUMA2	2.4.2.6
PRIAM enzyme-specific profiles	2.4.2.6
Kyoto University LIGAND chemical database	2.4.2.6
IUBMB Enzyme Nomenclature	2.4.2.6
IntEnz	2.4.2.6
MEDLINE	Find literature relating to 2.4.2.6
MetaCyc	2.4.2.6
UniProtKB/Swiss-Prot	Q6YNI5, NTD_LACFE; Q74LQ9, NTD_LACJO; Q9R5V5, NTD_LACLE

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# NiceZyme View of ENZYME: EC 5.4.2.7

## Official Name

**Phosphopentomutase.**

## Alternative Name(s)

**Deoxyribomutase.**

**Deoxyribose phosphomutase.**

**Phosphodeoxyribomutase.**

## Reaction catalysed

Alpha-D-ribose 1-phosphate <=> D-ribose 5-phosphate

## Comment(s)

- Also converts 2-deoxy-alpha-D-ribose 1-phosphate into 2-deoxy-alpha- D-ribose 5-phosphate.
- Alpha-D-ribose 1,5-bisphosphate, 2-deoxy-alpha-D-ribose 1,5- bisphosphate, or alpha-D-glucose 1,6-bisphosphate can act as cofactor.
- Formerly EC 2.7.5.6.

## Cross-references

BRENDA      5.4.2.7

PUMA2      5.4.2.7

PRIAM enzyme-specific profiles      5.4.2.7

Kyoto University LIGAND chemical database      5.4.2.7

IUBMB Enzyme Nomenclature      5.4.2.7

IntEnz      5.4.2.7

MEDLINE      Find literature relating to 5.4.2.7

MetaCyc      5.4.2.7

Q8UJ04, DEOB_AGRT5;	Q81ME0, DEOB_BACAN;	Q818Z9, DEOB_BACCR;
Q9KCN9, DEOB_BACHD;	O24821, DEOB_BACST;	P46353, DEOB_BACSU;
P57607, DEOB_BUCAI;	Q8K936, DEOB_BUCAP;	Q89A57, DEOB_BUCBP;
Q7NRT1, DEOB_CHRVO;	Q97HE6, DEOB_CLOAB;	Q8XNE7, DEOB_CLOPE;
Q894Z2, DEOB_CLOTE;	Q9RSI9, DEOB_DEIRA;	P0A6K8, DEOB_ECO57;
P0A6K7, DEOB_ECOL6;	P0A6K6, DEOB_ECOLI;	Q839I2, DEOB_ENTFA;
Q9ZK37, DEOB_HELPJ;	P56195, DEOB_HELPY;	Q9CH12, DEOB_LACLA;

UniProtKB/Swiss-Prot	O32808, DEOB_LACLC;	Q92A54, DEOB_LISIN;	Q71Y60, DEOB_LISMF;
	Q8Y5V1, DEOB_LISMO;	Q98QT4, DEOB_MYCPU;	Q8EQ67, DEOB_OCEIH;
	Q7N931, DEOB_PHOLL;	Q98BG5, DEOB_RHILO;	Q92T47, DEOB_RHIME;
	P63924, DEOB_SALTI;	P63923, DEOB_SALTY;	Q8EHK2, DEOB_SHEON;
	P0A6K9, DEOB_SHIFL;	Q5HJM9, DEOB_STAAC;	P63925, DEOB_STAAM;
	P99100, DEOB_STAAN;	Q6GKG6, DEOB_STAAR;	Q6GCY5, DEOB_STAAS;
	P63926, DEOB_STAAW;	Q5HM86, DEOB_STAEQ;	Q8CNH9, DEOB_STAES;
	Q4L817, DEOB_STAHJ;	Q49Z82, DEOB_STAS1;	Q8CMH7, DEOB_STRA3;
	Q8CMH6, DEOB_STRA5;	Q8DTU0, DEOB_STRMU;	P63927, DEOB_STRP1;
	P63928, DEOB_STRP3;	Q5XCL5, DEOB_STRP6;	Q8P1C4, DEOB_STRP8;
	Q97RI6, DEOB_STRPN;	Q8DQD0, DEOB_STRR6;	Q9EUQ2, DEOB_STRTR;
	Q9WY14, DEOB_THEMA;	Q8RCG6, DEOB_THETN;	Q9KPL9, DEOB_VIBCH;
	Q87M24, DEOB_VIBPA;	Q8DBT0, DEOB_VIBVU;	Q7MI40, DEOB_VIBVY;
	Q8ZIQ3, DEOB_YERPE;		

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# NiceZyme View of ENZYME: EC 2.7.5.1

## Transferred entry: 5.4.2.2

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# NiceZyme View of ENZYME: EC 5.4.2.2

## Official Name

**Phosphoglucomutase.**

## Alternative Name(s)

**Glucose phosphomutase.**

**Phosphoglucose mutase.**

## Reaction catalysed

Alpha-D-glucose 1-phosphate  $\rightleftharpoons$  alpha-D-glucose 6-phosphate

## Comment(s)

- Maximum activity is only obtained in the presence of alpha-D-glucose 1,6-bisphosphate
- This bisphosphate is an intermediate in the reaction, being formed by transfer of a phosphate residue from the enzyme to the substrate, but the dissociation of bisphosphate from the enzyme complex is much slower than the overall isomerization.
- Also, more slowly, catalyzes the interconversion of 1-phosphate and 6-phosphate isomers of many other alpha-D-hexoses, and the interconversion of alpha-D-ribose 1-phosphate and 5-phosphate.
- Formerly EC 2.7.5.1.

## Cross-references

Biochemical

Pathways; map number(s)      B5 ; U9

PROSITE                      PDOC00589

BRENDA                      5.4.2.2

PUMA2                        5.4.2.2

PRIAM enzyme-specific profiles      5.4.2.2

Kyoto University

LIGAND chemical database              5.4.2.2

IUBMB Enzyme Nomenclature      5.4.2.2

IntEnz                        5.4.2.2

MEDLINE                      Find literature relating to 5.4.2.2

MetaCyc	5.4.2.2			
	P26276, ALGC_PSEAE;	Q88C93, ALGC_PSEPK;	Q88BD4, ALGC_PSESM;	
	P36871, PGM1_HUMAN;	Q4R5E4, PGM1_MACFA;	Q9D0F9, PGM1_MOUSE;	
	P00949, PGM1_RABIT;	P38652, PGM1_RAT;	P33401, PGM1_YEAST;	
	Q6PCE3, PGM2L_HUMAN;	Q8CAA7, PGM2L_MOUSE;	Q5R979, PGM2L_PONPY;	
	Q96G03, PGM2_HUMAN;	Q7TSV4, PGM2_MOUSE;	Q5RFI8, PGM2_PONPY;	
	P37012, PGM2_YEAST;	O49299, PGMC1_ARATH;	P93804, PGMC1_MAIZE;	
UniProtKB/Swiss-Prot	Q9SGC1, PGMC2_ARATH;	P93805, PGMC2_MAIZE;	Q9SNX2, PGMC_BROIN;	
	P93262, PGMC_MESCR;	Q9SM60, PGMC_PEA;	Q9ZSQ4, PGMC_POPTN;	
	Q9M4G4, PGMC_SOLTU;	Q9SCY0, PGMP_ARATH;	Q9SMM0, PGMP_BRANA;	
	Q9SM59, PGMP_PEA;	Q9M4G5, PGMP_SOLTU;	P38569, PGM_ACEXY;	
	P39671, PGM_AGRU;	P57749, PGM_ASPOR;	Q23919, PGM_DICDI;	
	Q9VUY9, PGM_DROME;	Q7KHA1, PGM_DROSI;	P36938, PGM_ECOLI;	
	Q9P931, PGM_EMENI;	O18719, PGM_ENTDI;	O15820, PGM_ENTHI;	
	P40390, PGM_NEIGO;	P57002, PGM_NEIMA;	P40391, PGM_NEIMB;	
	O74374, PGM_SCHPO;	P29955, XANA_XANCP;		

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